

THE NESTBOX COMPANY LTD



User Guide



Heated Bat
Roost Box
(BBH)

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1. Introduction

Thank you for purchasing one of the Nestbox Company's family of products. We hope you and the resident bats will enjoy many years of successful roosting with this Heated Bat Roost Box.

2. Contents of Your Product

The Heated Bat Roost Box consists of 2 main components:

1. Bat Box with internal electric heater, temperature sensor and cable to connect to Temperature Control Unit.



2. Temperature Control Unit with mains cord and mains plug with inbuilt RCD Circuit Breaker.



3. Setting Up Your Equipment for Operation

It is easy to put the system together and connect it up safely by following these step by step instructions.

3.1 Install the Bat Box

Put up the bat box in the selected location. Whilst most users will be erecting it outside, the box will operate just as effectively inside. Bat boxes are normally sited high up on trees or on the walls of buildings, so **please take particular care of your personal safety when working at height** up a ladder or platform, as the bat box is heavy.

There are mounting holes in the corners of the box, and these are designed for screws or nails, but you could drill additional holes in the flanges above and below the box if required.

Run the cable (one end of which is attached to the Bat Box) down the wall etc and into the building to the point where the Temperature Controller is to be situated. If you need to run it through the wall of a building, we suggest drilling a 20-22 mm diameter hole.

The flexible conical grommet (which is already fitted to the cable), is designed to be fitted (from the outside) to the hole through the wall to ensure the cable is a snug fit and stop draughts rain etc. Slide it along the cable to fit. If you don't need to use the grommet, it can be cut off and discarded (but please be careful not to damage the cable itself).



3.2 Install the Temperature Controller



Find a suitable location (such as an accessible shelf), and then connect it to the Bat Box by plugging the connector on the end of the cable coming from the Bat Box into the socket on the side of the Temperature Controller. Lock the connectors together by

twisting the collar in a clockwise direction.

The Temperature Controller is designed for interior use only: It is potentially dangerous to use it outside or in a damp location.

Insert the mains plug with integrated circuit breaker into a convenient (and properly earthed) mains power point., and switch the power point on.

We suggest you carry out the following simple safety test procedure each time before switching on the system:

- Press the RESET button to show the orange indicator, which should then remain visible
- Press TEST button and the orange indicator should disappear
- DO NOT USE THE SYSTEM IF THE ORANGE INDICATOR REMAINS, but contact us or a qualified electrician.



Switch on the system by pressing the reset button.

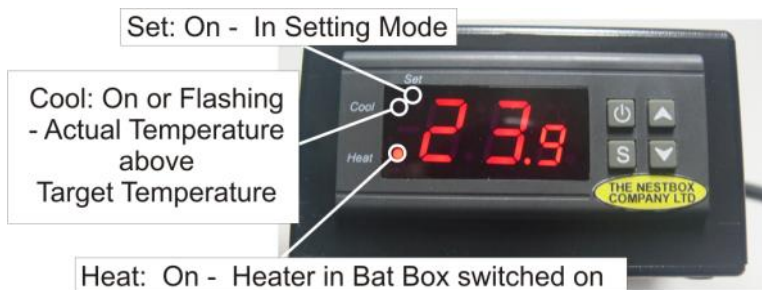
The box is now fully working. You don't need to do anything else, unless you prefer to read on or adjust the settings yourself.

The system will now be active and the display on the Temperature Controller will light up. After a few seconds it will “settle” to display the temperature at the sensor inside the Bat Box, and to indicate whether the heater is switched on.

The Target Temperature is factory set to 26.5°C, although different parts of the Bat Box are likely to be at different temperatures.either above or below the temperature at the sensor. You can use the system with the factory settings, or change them as described below.

3.3 Display and Buttons on Temperature Controller

Indicator Lights



Buttons



Display

In Normal mode, display shows temperature in °C at Sensor.

Press Up to display Target Temperature.

Press Down to display Difference Value.

Errors and Alarms

Disconnection Alarm:

Display shows “EE” and sounds alarm: Cable to Bat Box disconnected - Press any button to stop alarm sounding, and then check the connectors and cable to Bat Box. Once the cable is reconnected, the Temperature Controller will resume normal operation.

Excess Temperature Alarm:

Display shows “HH” and sounds alarm: Temperature at 100°C or higher - Switch off power until Bat Box has cooled down.

Self Checking Alarm:

Display shows “Er”: Error in self checking - Press any button to clear and then check that the Target Temperature is correctly set.

3.4 Switching On and Off

Mains

Whenever the power supply to the plug is switched off or interrupted, the safety plug will need to be reset by pushing the orange button to switch back on.

To switch off at the plug, press the red reset button.

Temperature Controller

To switch on, press and hold the on/off button for 1 second

To switch off, press and hold the On/Off button for 3 seconds

3.5 Setting Temperature Values

How the temperature is regulated

The Temperature Controller regulates the temperature inside the Bat Box by reference to the Target Temperature. To avoid the heater being repeatedly switched on and off very quickly. (sometimes called jitter), it uses a Temperature Difference Value. The controller will switch the heater on when the temperature at the sensor drops to the Target Temperature less the Temperature Difference Value. It will then switch the heater off when the temperature at the sensor rises to the point at which it is equal to the Target Temperature. Because of the thermal inertia of the Bat Box, and the fact that the sensor is at a distance from the heater, you may notice that the temperature in the Bat Box keeps rising for a few minutes after the heater has switched off. This is perfectly normal.

To Set the Target Temperature

1. Press Set Button for 3 seconds until Set indicator comes on and "F1" is displayed
2. Release Set Button
3. Press Set Button to show currently set temperature
4. Press Set Button at the same time as Up or Down Buttons to set new Target Temperature
5. Press and release the On/Off Button to save the new value

To Set the Temperature Difference Value

The Temperature Difference Value can be set between 0.3°C and 10°C .

1. Press Set Button for 3 seconds until Set indicator comes on and "F1" is displayed
2. Release Set Button
3. Press Up and Down buttons to move to a display of "F2"
4. Press Set Button to show currently set temperature Difference Value
5. Press Set Button at the same time as Up or Down Buttons to set new Temperature Difference Value
6. Press and release the On/Off Button to save the new value

To Calibrate/Adjust the Temperature Sensor in the Bat Box

An adjustment of between -10°C and +10°C can be applied to the sensor if desired.

1. Press Set Button for 3 seconds until Set indicator comes on and "F1" is displayed
2. Release Set Button
3. Press Up and Down buttons to move to a display of "F4"
4. Press Set Button to show currently set temperature adjustment
5. Press Set Button at the same time as Up or Down Buttons to set new temperature adjustment
6. Press and release the On/Off Button to save the new value

4. Safety Precautions

This product operates on mains electricity and the heater reaches high temperatures. Mains voltages, which can be dangerous, are present in the Bat Box, the Temperature Controller and the power cord and cables.

Although the product is fitted with several safety features to protect users (whether human or bats), please observe the following precautions when using this product:

- Switch the power off when opening the Bat Box, running cables or connecting/disconnecting the cable.
- Do not open the Temperature Controller - there are no serviceable parts inside.
- Do not use the Temperature Controller outside or in damp conditions.
- Do not position the Bat Box under running water or in an excessively damp location.
- Ensure the outer sheath of the cable and power cord are not damaged.
- Do not touch the heater when hot.

This product is fused at 3A. If you need to replace the fuse (located in the plug) it should be replaced by another 3A fuse.

5. Specifications, Warranty etc

The specifications of the product described and the contents of this User Guide are subject to change without notice, as part of our continuous improvement process.

Whilst every care has been taken in the preparation of this document, we realise that it may still be possible to improve it. If you find any errors, omissions or points which are not clear, please let us know by email at mail@nestbox.co.uk. We will endeavour to deal with the problem to your satisfaction, and learn from it for future versions.

The contents of this document may not be reproduced in whole or in part except for your personal use.

The Nestbox Company Limited warrants all its products against defects in materials and manufacture for 6 months from the date of purchase. If a defect is discovered, the Nestbox Company will repair or replace the product (at its option) free of charge, provided it is returned to the address in this User Guide at the customer's expense.

The Nestbox Company Limited is not able to accept any responsibility for any loss, damage, or loss of data suffered by any customer or third party as a result of use, misuse or malfunction of the product or this User Guide. In particular, whilst the product has been extensively tested, we are unable to warrant that it is free of defects.

If you have a further technical or user question relating to the product, please email it to us at mail@nestbox.co.uk.

6. Care for the Environment

The Nestbox Company cares deeply about the Environment. We have adopted an Environmental Policy designed to demonstrate our commitment to operating our business in harmony with the natural and man made environments. If you wish to see the full policy, it is available to read on our web site.

Our products are developed to be economical with natural resources, both in manufacture and use. We comply with all the relevant laws and regulations, including those relating to the Restriction of Hazardous Substances (known as RoHS) and Waste Electronic and Electrical Equipment (WEEE).

The wood used in our products comes from responsibly managed forests, as part of our commitment to the FSC.

When you have finished using this product, please dispose of it responsibly. We would suggest using your local household recycling and waste treatment facility. In particular, all the electrical and electronic parts of the product should be disposed of at a collection point for electrical and electronic equipment or returned to us for disposal.



7. Heater Extension Cable (A80)

Available from our web site, this accessory extends the distance from Bat Box to Temperature Controller. Please see our web site for details.

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